

| L Number | Hits | Search Text | DB | Time stamp |
|----------|------|---|--------------------|---------------------|
| 1 | 0 | 13257/233.ccls. and (control adj electrode) | USPAT; US-PGPUB | 2003/12/22 09:23 |
| 2 | 17 | 257/233.ccls. and (control adj electrode) | USPAT; US-PGPUB | 2003/12/22 09:48 |
| 3 | 267 | 257/233.ccls. and electrode | USPAT; US-PGPUB | 2003/12/22 09:51 |
| 4 | 190 | (257/233.ccls. and electrode) and vertical | USPAT; US-PGPUB | 2003/12/22 09:49 |
| 5 | 106 | 257/233.ccls. and (polysilicon with electrode) | USPAT; US-PGPUB | 2003/12/22 09:59 |
| 6 | 3 | "5742081" | USPAT; US-PGPUB | 2003/12/22 10:03 |
| 7 | 0 | 6337495.pn. and 11c | USPAT; US-PGPUB | 2003/12/22 10:04 |
| 9 | 0 | 6337495.pn. and 11c\$2 | USPAT; US-PGPUB | 2003/12/22 10:11 |
| 10 | 1 | 6114717.pn. and B | USPAT; US-PGPUB | 2003/12/22 10:15 |
| 11 | 1 | "6185270" | USPAT; US-PGPUB | 2003/12/22 10:26 |
| 12 | 14 | "5393997" | USPAT; US-PGPUB | 2003/12/22 10:43 |
| 13 | 0 | 6185270.pn. and (vertical adj charge adj transfer adj path) | USPAT; US-PGPUB | 2003/12/22 10:58 |
| 14 | 1 | 6185270.pn. and (on or above) | USPAT; US-PGPUB | 2003/12/22 11:09 |
| 15 | 16 | "4803710" | USPAT; US-PGPUB | 2003/12/22 11:06 |
| 16 | 13 | "4211936" | USPAT; US-PGPUB | 2003/12/22 11:07 |
| 17 | 0 | 6185270.pn. and (path) | USPAT; US-PGPUB | 2003/12/22 11:23 |
| 18 | 33 | 257/250.ccls. and (polysilicon adj electrode) | USPAT; US-PGPUB | 2003/12/22 11:28 |
| 19 | 32 | 257/232.ccls. and (polysilicon adj electrode) | USPAT; US-PGPUB | 2003/12/22 11:28 |
| 68 | 0 | 5287192.pn. and (transfer adj gate) | USPAT; US-PGPUB | 2003/12/22 13:21 |
| 69 | 1 | 5287192.pn. and (transfer) | USPAT; US-PGPUB | 2003/12/22 13:21 |
| - | 397 | (348/294).CCLS. | USPAT; US-PGPUB | 2003/12/16 12:27 |
| - | 224 | ((348/294).CCLS.) and addition | USPAT; US-PGPUB | 2003/12/17 08:29 |
| - | 184 | ((348/294).CCLS.) and addition) and (pixels or photodiodes or photoelectric) | USPAT; US-PGPUB | 2003/12/16 13:35 |
| - | 107 | ((348/294).CCLS.) and (addition same (pixels or photodiodes or photoelectric)) | USPAT; US-PGPUB | 2003/12/16 12:29 |
| - | 121 | ((348/294).CCLS.) and (add\$5 with (pixels or photodiodes or photoelectric)) | USPAT; US-PGPUB | 2003/12/16 12:56 |
| - | 46 | ((348/294).CCLS.) and (add\$5 with (pixels or photodiodes or photoelectric)) not (((348/294).CCLS.) and (addition with (pixels or photodiodes or photoelectric))) | USPAT; US-PGPUB | 2003/12/17 09:21 |
| - | 75 | ((348/294).CCLS.) and (addition with (pixels or photodiodes or photoelectric)) | USPAT; US-PGPUB | 2003/12/16 12:56 |
| - | 218 | 348/220.1.ccls. | USPAT; US-PGPUB | 2003/12/17 09:02 |
| - | 53 | 348/220.1.ccls. and (add\$5 with (pixels or photodiodes or photoelectric)) | USPAT; US-PGPUB | 2003/12/16 13:10 |
| - | 3 | pixel adj addition adj reading adj method | USPAT; US-PGPUB | 2003/12/17 09:21 |
| - | 49 | vertical adj addition | USPAT; US-PGPUB | 2003/12/16 13:36 |
| - | 73 | horizontal adj addition | USPAT; US-PGPUB | 2003/12/16 13:14 |
| - | 13 | (vertical adj addition) and (horizontal adj addition) | USPAT; US-PGPUB | 2003/12/16 13:35 |

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| - | 5 | ((vertical adj addition) and (horizontal adj addition)) and (pixels or photodiodes or photoelectric) | USPAT; US-PGPUB | 2003/12/16 13:15 |
| - | 37157 | Bayer | USPAT; US-PGPUB | 2003/12/16 13:35 |
| - | 2076 | Bayer and (pixels or photodiodes or photoelectric) | USPAT; US-PGPUB | 2003/12/16 13:35 |
| - | 1660 | (Bayer and (pixels or photodiodes or photoelectric)) and addition | USPAT; US-PGPUB | 2003/12/16 13:35 |
| - | 2 | ((vertical adj addition) and (horizontal adj addition)) and ((Bayer and (pixels or photodiodes or photoelectric)) and addition) | USPAT; US-PGPUB | 2003/12/17 08:54 |
| - | 0 | "666661451" | USPAT; US-PGPUB | 2003/12/16 13:46 |
| - | 1 | "6661451" | USPAT; US-PGPUB | 2003/12/16 13:46 |
| - | 1 | 5880777.pn. | USPAT; US-PGPUB | 2003/12/16 14:54 |
| - | 1 | 5880777.pn. and binning | USPAT; US-PGPUB | 2003/12/16 14:54 |
| - | 60 | ((348/294).CCLS.) and bin\$4 | USPAT; US-PGPUB | 2003/12/17 08:34 |
| - | 44 | (vertical and horizontal) adj bin\$4 | USPAT; US-PGPUB | 2003/12/17 08:57 |
| - | 1 | "5555324".PN. | USPAT | 2003/12/17 08:51 |
| - | 1 | "5423055".PN. | USPAT | 2003/12/17 08:51 |
| - | 1 | "5270558".PN. | USPAT | 2003/12/17 08:52 |
| - | 1 | "5191426".PN. | USPAT | 2003/12/17 08:52 |
| - | 1 | "5008758".PN. | USPAT | 2003/12/17 08:52 |
| - | 1 | "4656519".PN. | USPAT | 2003/12/17 08:52 |
| - | 1 | "4737841".PN. | USPAT | 2003/12/17 08:53 |
| - | 0 | ((vertical adj bin\$4) and (horizontal adj Bin\$4)) and ((Bayer and (pixels or photodiodes or photoelectric)) and bin\$4) | USPAT; US-PGPUB | 2003/12/17 08:55 |
| - | 2 | ((vertical and horizontal) adj bin\$4) and (control adj gates) | USPAT; US-PGPUB | 2003/12/17 08:58 |
| - | 20 | 348/220.1.ccls. and bin\$4 | USPAT; US-PGPUB | 2003/12/17 09:04 |
| - | 0 | 348/217,216.ccls. and bin\$4 | USPAT; US-PGPUB | 2003/12/17 09:05 |
| - | 0 | 348/217,216.ccls. | USPAT; US-PGPUB | 2003/12/17 09:05 |
| - | 0 | 348/216,217.ccls. | USPAT; US-PGPUB | 2003/12/17 09:06 |
| - | 0 | 348/216.ccls. | USPAT; US-PGPUB | 2003/12/17 09:05 |
| - | 0 | 348/217.ccls. | USPAT; US-PGPUB | 2003/12/17 09:06 |
| - | 397 | 348/294.ccls. | USPAT; US-PGPUB | 2003/12/17 09:06 |
| - | 142 | 348/216.1,217.1.ccls. | USPAT; US-PGPUB | 2003/12/17 09:07 |
| - | 142 | 348/216.1,217.1.ccls.38 and bin\$4 | USPAT; US-PGPUB | 2003/12/17 09:19 |
| - | 16 | 348/216.1,217.1.ccls. and bin\$4 | USPAT; US-PGPUB | 2003/12/17 09:19 |
| - | 13171 | pixel same bin\$4 | USPAT; US-PGPUB | 2003/12/17 09:21 |
| - | 6832 | bin\$4 near5 (pixels or photodiodes or photoelectric) | USPAT; US-PGPUB | 2003/12/17 09:58 |
| - | 4209 | (bin\$4 near5 (pixels or photodiodes or photoelectric)) and color | USPAT; US-PGPUB | 2003/12/17 09:22 |
| - | 1087 | ((bin\$4 near5 (pixels or photodiodes or photoelectric)) and color) and gate\$1 | USPAT; US-PGPUB | 2003/12/17 09:22 |

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| - | 690 | ((bin\$4 near5 (pixels or photodiodes or photoelectric)) and color) and gate\$1) and transfer | USPAT; US-PGPUB | 2003/12/17 09:22 |
| - | 118 | ((bin\$4 near5 (pixels or photodiodes or photoelectric)) and color) and gate\$1) and transfer) and electrode\$1 | USPAT; US-PGPUB | 2003/12/17 09:23 |
| - | 46930 | bin\$4 and (pixels or photodiodes or photoelectric) | USPAT; US-PGPUB | 2003/12/17 09:58 |
| - | 15790 | (bin\$4 and (pixels or photodiodes or photoelectric)) and (horizontal and vertical) | USPAT; US-PGPUB | 2003/12/17 10:10 |
| - | 172 | ((bin\$4 and (pixels or photodiodes or photoelectric)) and (horizontal and vertical)) and (transfer adj gate) | USPAT; US-PGPUB | 2003/12/17 10:16 |
| - | 1 | "4467361".PN. | USPAT | 2003/12/17 10:11 |
| - | 1 | "4481538".PN. | USPAT | 2003/12/17 10:12 |
| - | 1 | "4603342".PN. | USPAT | 2003/12/17 10:12 |
| - | 1 | "4481538".PN. | USPAT | 2003/12/17 10:12 |
| - | 1 | "4656519".PN. | USPAT | 2003/12/17 10:13 |
| - | 1 | "4737841".PN. | USPAT | 2003/12/17 10:13 |
| - | 1 | "5008758".PN. | USPAT | 2003/12/17 10:14 |
| - | 1 | "5191426".PN. | USPAT | 2003/12/17 10:14 |
| - | 103 | ((bin\$4 and (pixels or photodiodes or photoelectric)) and (horizontal and vertical)) and (transfer adj gate)) and CCD | USPAT; US-PGPUB | 2003/12/17 10:45 |
| - | 2152 | binned or binning | USPAT; US-PGPUB | 2003/12/17 10:58 |
| - | 452 | (binned or binning) and CCD | USPAT; US-PGPUB | 2003/12/17 10:58 |
| - | 166 | ((binned or binning) and CCD) and (horizontal and vertical) | USPAT; US-PGPUB | 2003/12/17 10:58 |
| - | 16 | (US-5838372-\$ or US-5848123-\$ or US-5693948-\$ or US-5742659-\$ or US-6126899-\$ or US-6355420-\$ or US-4862257-\$ or US-5880777-\$ or US-5909244-\$ or US-6633331-\$ or US-5905528-\$ or US-6011583-\$ or US-6593964-\$ or US-6661451-\$ or US-5287192-\$ or US-5703639-\$).did. | USPAT | 2003/12/17 14:08 |
| - | 16 | (US-6661451-\$ or US-5287192-\$ or US-6593964-\$ or US-6011583-\$ or US-5880777-\$ or US-5909244-\$ or US-6633331-\$ or US-5905528-\$ or US-4862257-\$ or US-6355420-\$ or US-6126899-\$ or US-5742659-\$ or US-5703639-\$ or US-5693948-\$ or US-5848123-\$ or US-5838372-\$).did. | USPAT | 2003/12/17 14:59 |
| - | 15 | ((US-6661451-\$ or US-5287192-\$ or US-6593964-\$ or US-6011583-\$ or US-5880777-\$ or US-5909244-\$ or US-6633331-\$ or US-5905528-\$ or US-4862257-\$ or US-6355420-\$ or US-6126899-\$ or US-5742659-\$ or US-5703639-\$ or US-5693948-\$ or US-5848123-\$ or US-5838372-\$).did.) and control | USPAT; US-PGPUB | 2003/12/17 14:09 |

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| - | 10 | ((US-6661451-\$ or US-5287192-\$ or US-6593964-\$ or US-6011583-\$ or US-5880777-\$ or US-5909244-\$ or US-6633331-\$ or US-5905528-\$ or US-4862257-\$ or US-6355420-\$ or US-6126899-\$ or US-5742659-\$ or US-5703639-\$ or US-5693948-\$ or US-5848123-\$ or US-5838372-\$).did.) and (control and (binning or binned)) | USPAT; US-PGPUB | 2003/12/17 14:09 |
| - | 15 | ((US-6661451-\$ or US-5287192-\$ or US-6593964-\$ or US-6011583-\$ or US-5880777-\$ or US-5909244-\$ or US-6633331-\$ or US-5905528-\$ or US-4862257-\$ or US-6355420-\$ or US-6126899-\$ or US-5742659-\$ or US-5703639-\$ or US-5693948-\$ or US-5848123-\$ or US-5838372-\$).did.) and (control and (binning or binned or added or addition or adding)) | USPAT; US-PGPUB | 2003/12/17 14:32 |
| - | 1791 | vertical adj transfer | USPAT; US-PGPUB | 2003/12/17 14:32 |
| - | 577 | (vertical adj transfer) and CCD and advantage\$1 | USPAT; US-PGPUB | 2003/12/17 14:33 |
| - | 8 | ((vertical adj transfer) and CCD and advantage\$1) and (advantage\$1 with (vertical adj transfer)) | USPAT; US-PGPUB | 2003/12/17 14:35 |
| - | 15 | (advantage\$1 with (vertical adj transfer)) | USPAT; US-PGPUB | 2003/12/17 14:38 |
| - | 1 | 4660919.pn. | USPAT; US-PGPUB | 2003/12/17 14:38 |
| - | 1 | 4460919.pn. | USPAT; US-PGPUB | 2003/12/17 14:54 |
| - | 0 | 5742659.pn. and AB | USPAT; US-PGPUB | 2003/12/17 14:54 |
| - | 1 | 5838372.pn. and 60a | USPAT; US-PGPUB | 2003/12/17 14:57 |
| - | 1 | ((US-6661451-\$ or US-5287192-\$ or US-6593964-\$ or US-6011583-\$ or US-5880777-\$ or US-5909244-\$ or US-6633331-\$ or US-5905528-\$ or US-4862257-\$ or US-6355420-\$ or US-6126899-\$ or US-5742659-\$ or US-5703639-\$ or US-5693948-\$ or US-5848123-\$ or US-5838372-\$).did.) and (control adj gate\$1) | USPAT | 2003/12/17 15:09 |
| - | 30 | (first adj2 second adj layer adj polysilicon) | USPAT | 2003/12/17 15:14 |
| - | 10 | ((first adj2 second adj layer adj polysilicon)) and electrode | USPAT | 2003/12/17 15:14 |
| - | 5 | ((first adj2 second adj layer adj polysilicon)) and CCD | USPAT | 2003/12/17 15:14 |
| - | 273 | 257/232.ccls. | USPAT; US-PGPUB | 2003/12/18 14:50 |
| - | 107 | 257/232.ccls. and (transfer adj gate) | USPAT; US-PGPUB | 2003/12/18 15:24 |
| - | 3 | 257/232.ccls. and (binning or binned) | USPAT; US-PGPUB | 2003/12/18 15:28 |
| - | 360 | 257/233.ccls. | USPAT; US-PGPUB | 2003/12/18 15:34 |
| - | 5 | (257/233.ccls. and (transfer adj gate)) and (control adj electrode) | USPAT; US-PGPUB | 2003/12/18 15:35 |
| - | 11 | 257/232.ccls. and (control adj electrode) | USPAT; US-PGPUB | 2003/12/18 15:36 |
| - | 133 | 257/233.ccls. and (transfer adj gate) | USPAT; US-PGPUB | 2003/12/18 16:05 |
| - | 93 | (transfer adj gate) same (control adj electrodes) | USPAT; US-PGPUB | 2003/12/18 16:23 |
| - | 237 | 257/250.ccls. | USPAT; US-PGPUB | 2003/12/18 16:23 |
| - | 56377 | (first and second) adj3 electrode | USPAT; US-PGPUB | 2003/12/18 16:23 |

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| - | 121 | 257/250.ccls. and ((first and second) adj3 electrode) | USPAT; US-PGPUB | 2003/12/18 16:23 |
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